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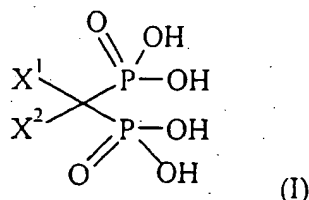
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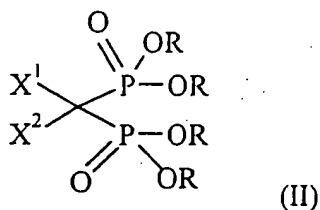
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## CLAIMS:

1. A process for preparing salts of a substituted or unsubstituted methylene bisphosphonic acid of general formula I



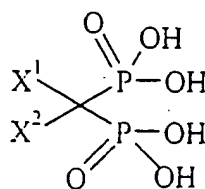
wherein  $\text{X}^1$  and  $\text{X}^2$  are independently hydrogen or halogen, which process comprises hydrolysing, using hydrochloric acid, the corresponding ester of formula II,



wherein  $\text{X}^1$  and  $\text{X}^2$  are defined above and R is a  $\text{C}_{1-4}$  straight or branched chain alkyl group and converting the acid to a salt by reaction with a base characterised in that the concentration of hydrochloric acid is from 15% to 20% by weight and water is removed azeotropically from the resultant acid using n-butanol prior to the addition of an amine or a base.

2. The process as claimed in claim 1 wherein  $\text{X}^1$  and  $\text{X}^2$  are both fluorine, chlorine or bromine.
3. The process as claimed in claim 2 wherein  $\text{X}^1$  and  $\text{X}^2$  are both chlorine.

4. The process as claimed in claims 1 to 3 wherein the tetraester of formula II is the tetraisopropyl ester.
5. The process as claimed in claim 1 wherein the compound of formula II is dichloromethylene bisphosphonate tetraisopropyl ester.
6. The process as claimed in any one of claims 1 to 5 wherein the acid product of the hydrolysis is reacted with an organic or inorganic base such as a  $C_{1-4}$  straight or branched primary, secondary or tertiary alkylamine, aralkylamine, basic N-containing heterocycle, alkali or alkaline earth metal hydroxide.
7. The process as claimed in claim 6 wherein the base is selected from the group comprising  $C_{1-4}$  straight or branched primary, secondary or tertiary alkylamine, aralkylamine, basic N-containing heterocycle or alkali metal hydroxides.
8. The process as claimed in claim 7, wherein the base is selected from the group comprising triethylamine, tri-n-propylamine, diisopropylethylamine, tri-n-butylamine, pyridine, tribenzylamine and sodium hydroxide.
9. The process as claimed in claim 8, wherein the volume of hydrochloric acid used is from about 3 to about 5 volumes.
10. The process as claimed in any one of claims 1 to 9 wherein the hydrolysis is carried out at from about 80°C to about 90°C.
11. The process as claimed in any one of claims 1 to 10 wherein a vacuum is applied following the addition of n-butanol.
12. A salt of substituted or unsubstituted methylene bisphosphonic acid of formula I



wherein X<sup>1</sup> and X<sup>2</sup> are independently hydrogen or halogen.

13. A salt as claimed in claim 12 wherein X<sup>1</sup> and X<sup>2</sup> are both hydrogen, fluorine, chlorine or bromine.

14. A salt as claimed in claim 13 wherein X<sup>1</sup> and X<sup>2</sup> are both chlorine.

15. A salt as claimed in claim 12 wherein one of X<sup>1</sup> and X<sup>2</sup> is hydrogen and one is chlorine.

16. A salt as claimed in any one of claims 12 to 15 wherein the salt is a C<sub>1-6</sub> straight or branched primary, secondary or tertiary alkyl amine salt, an aralkyl amine salt, a basic N-containing heterocycle salt, an alkali or alkaline earth metal salt.

17. A salt as claimed in claim 16 wherein the salt is a C<sub>1-4</sub> straight or branched primary, secondary or tertiary alkylamine salt, an aralkyl amine salt, a basic N-containing heterocycle salt or an alkali metal salt such as sodium or potassium salt,

18. A salt as claimed in claim 17 wherein the salt is a triethylamine, tri-n-propylamine, diisopropylethylamine, tri-n-butylamine, pyridine, tribenzylamine or sodium salt.

19. A salt as claimed in claim 18 which is selected from  
dichloromethylene bisphosphonic acid. mono(tri-n-butylamine) salt

dichloromethylene bisphosphonic acid, monopyridine salt

dichloromethylene bisphosphonic acid, mono(triethylamine) salt

dichloromethylene bisphosphonic acid, mono(diisopropylethylamine) salt

dichloromethylene bisphosphonic acid, mono(tribenzylamine) salt

5 dichloromethylene bisphosphonic acid, mono(tri-n-propylamine) salt

dichloromethylene bisphosphonic acid, disodium salt.